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Water Supply Outlook For Idaho



 **SOIL CONSERVATION SERVICE**
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1981

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Snow surveyors making special measurements of the snowpack near Mt. St. Helens Volcano, Washington, April 1980.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1981

Snow surveys near March 1 indicate an extremely variable snowpack in Idaho with all areas reporting below to well below normal conditions. Many watersheds, particularly the small, low elevation drainages, have a critical shortage of snow. Snow water accumulation varies from a low of 12 percent of normal on the Palouse River watershed to a high of 79 percent of average on the Little Wood drainage.

Valley precipitation was below normal during February throughout southern Idaho and above average in some northern areas. Total valley precipitation for the period of November 1, 1980 to March 1, 1981 is below normal throughout the state.

Forecasts of seasonal runoff are below to well below normal throughout the state with some volume forecasts near or at a record low. Forecasts vary from a low of 37 percent of average for Salmon Falls Creek to 76 percent for the Henry's fork and Big Lost Rivers.

Reservoir storage is good to excellent and most major reservoirs are expected to fill. Combined storage in sixteen irrigation reservoirs in the Snake River Basin is presently 84 percent of capacity which is 120 percent of normal for March 1.

The outlook is for adequate irrigation water supplies for areas with storage facilities and below normal supplies in other areas. Serious to critical shortages are the prospect on many streams with no reservoirs.

With water shortages apparent for the coming season, all water users should take all steps possible to efficiently manage and conserve the water resource.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter February 1980		Fall - Winter Nov. 80 - Feb. 81	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	2.29	+ 0.34	12.24	+ 0.59
Flathead	1.82	+ 0.08	8.50	- 0.70
Clark Fork	1.52	+ 0.25	5.56	- 1.22
Pend Oreille-Spokane	3.15	+ 0.31	13.67	- 1.35
Upper Snake	1.23	- 0.62	5.93	- 2.66
Snake River Plain	0.44	- 0.34	2.89	- 1.41
Salmon-Payette-Boise	2.12	+ 0.37	9.46	- 0.60
Clearwater	3.11	+ 0.24	12.80	- 2.12
Owyhee-Malheur	0.90	+ 0.05	3.72	- 1.10

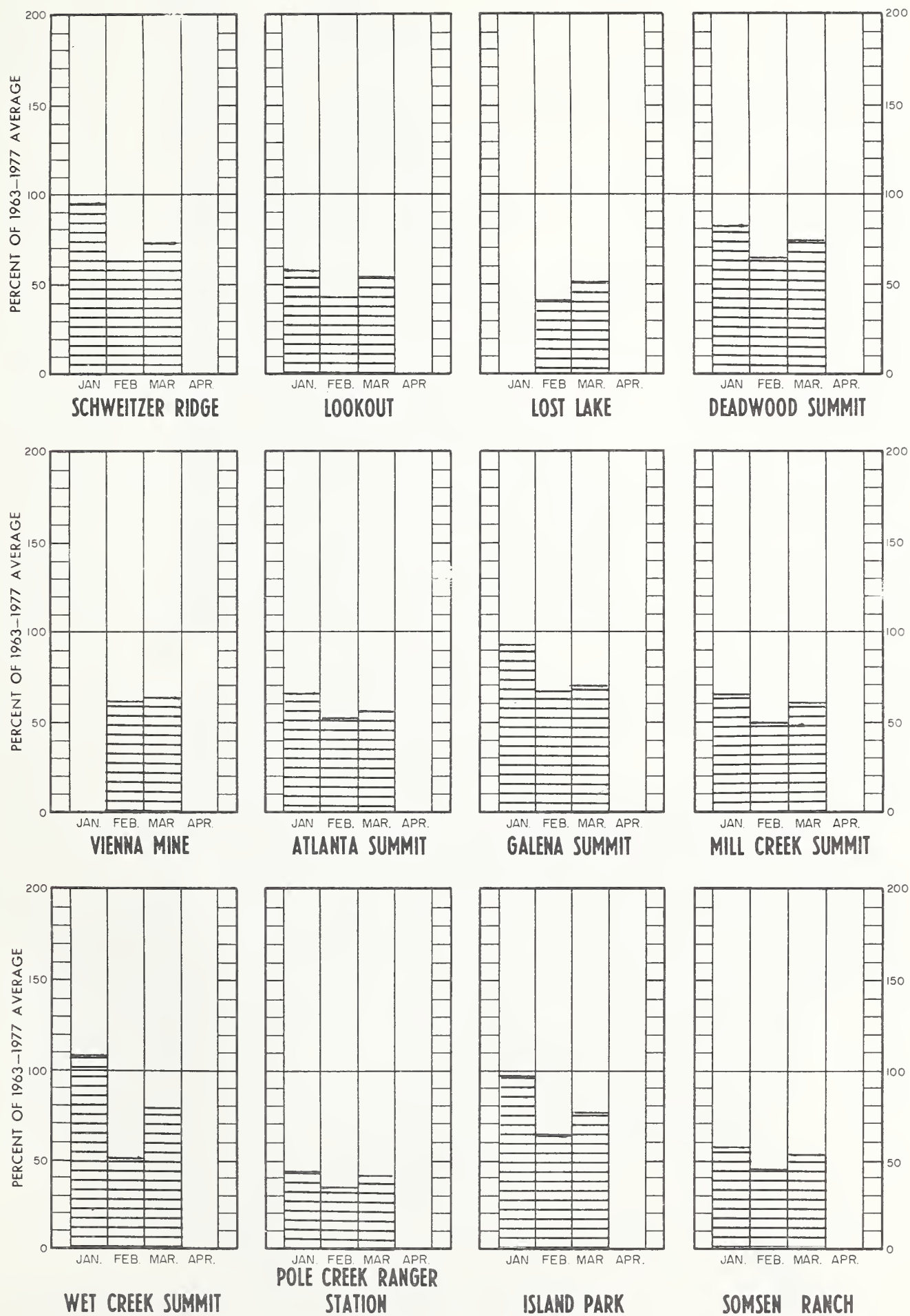
1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

MARCH 1, 1981



COMPARISON of SNOW COVER

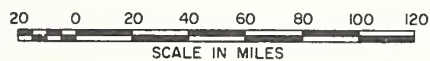
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	19	82	57
Pend Oreille River	106	87	60
Clark Fork River	69	79	55
Flathead River	37	97	67
Priest River	3	63	59
Spokane River	12	74	45
Hayden Creek	2 - 6	38	23
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	3	26	12
Clearwater River	15 - 17	72	47
Salmon River	26 - 31	70	66
Lemhi River	6	61	62
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5 - 6	72	70
Big Lost River	9	76	78
Fish Creek	2	67	77
Little Wood River	4	72	79
Big Wood River	11 - 13	65	67
Boise River	17 - 18	52	52
Canyon Creek	3	44	43
Payette River	14 - 17	70	70
Weiser River	3 - 5	79	68
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	5 - 7	52	53
Goose-Trapper Creek	4 - 6	43	45
Salmon Falls Creek	10	35	39
Bruneau River	5	40	43
Owyhee River	6	27	32
Jordan Creek	3	35	43
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Reservoir	34	62	54
Camas-Beaver Creeks	1	113	69
Henrys Fork River	7 - 11	79	69
Teton River	7	74	61
Willow Creek	5 - 8	60	59
Blackfoot River	3 - 6	44	53
Portneuf River	4 - 10	44	42
<u>GREAT BASIN</u>			
Bear River - Upper	4	42	48
Bear River - Lower	14	41	45
Montpelier Creek	6	47	50
Mink Creek	7	40	45
Cub River	3 - 4	43	47
Malad River	4 - 6	32	38

PROSPECTIVE STREAMFLOW

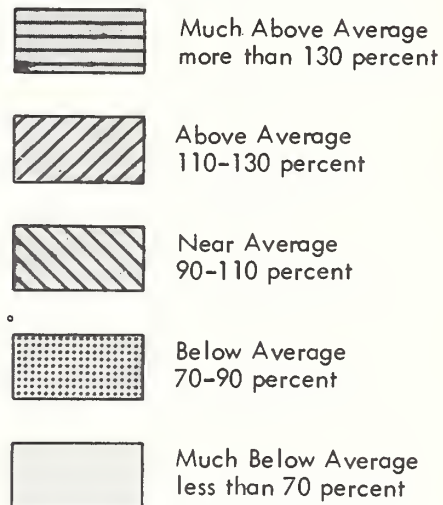
Based on Snow Surveys made on approximately

MARCH 1, 1981

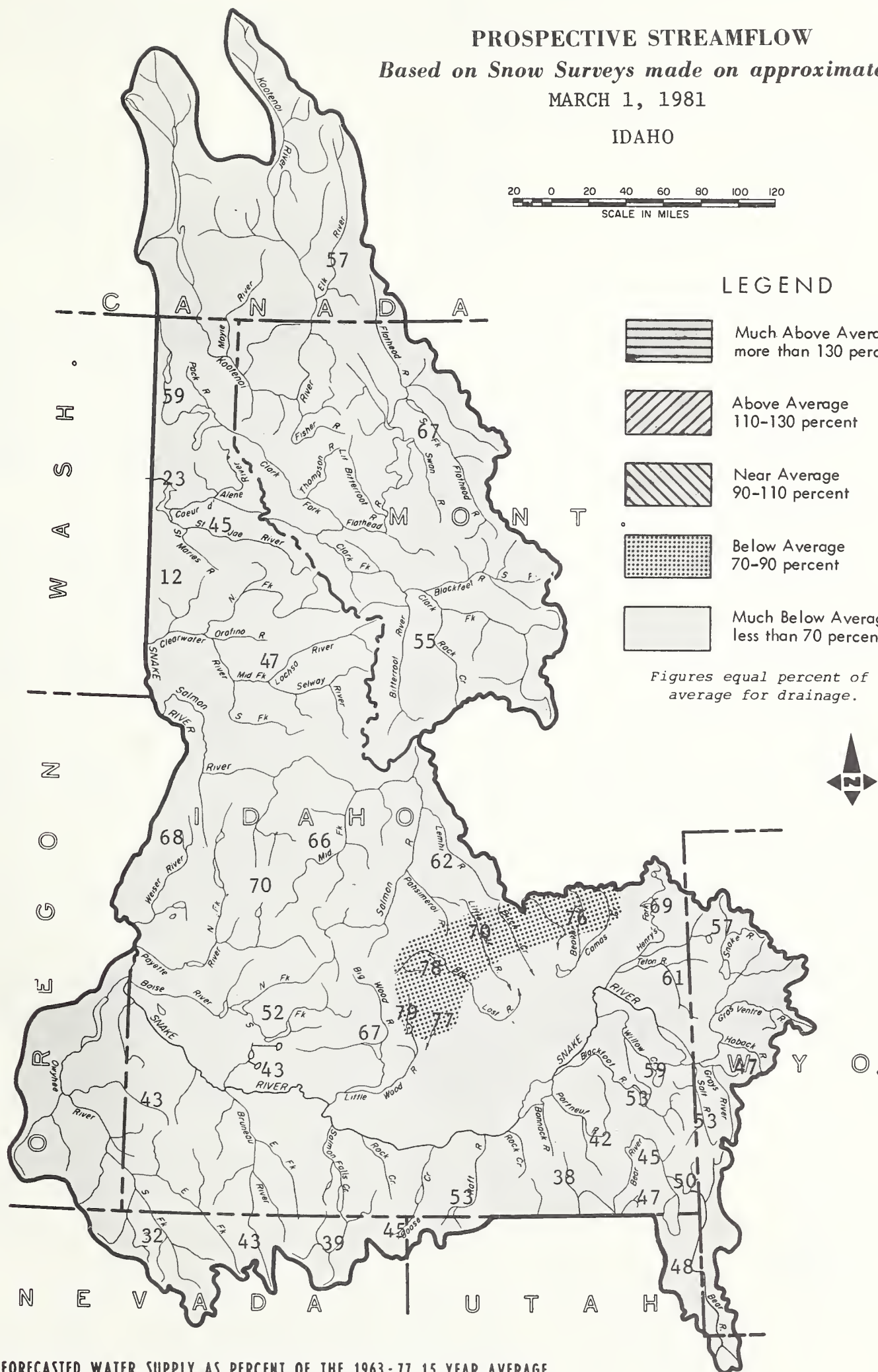
IDAHO



LEGEND



Figures equal percent of average for drainage.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

RESERVOIR STORAGE (1.000 Ac. Ft.)

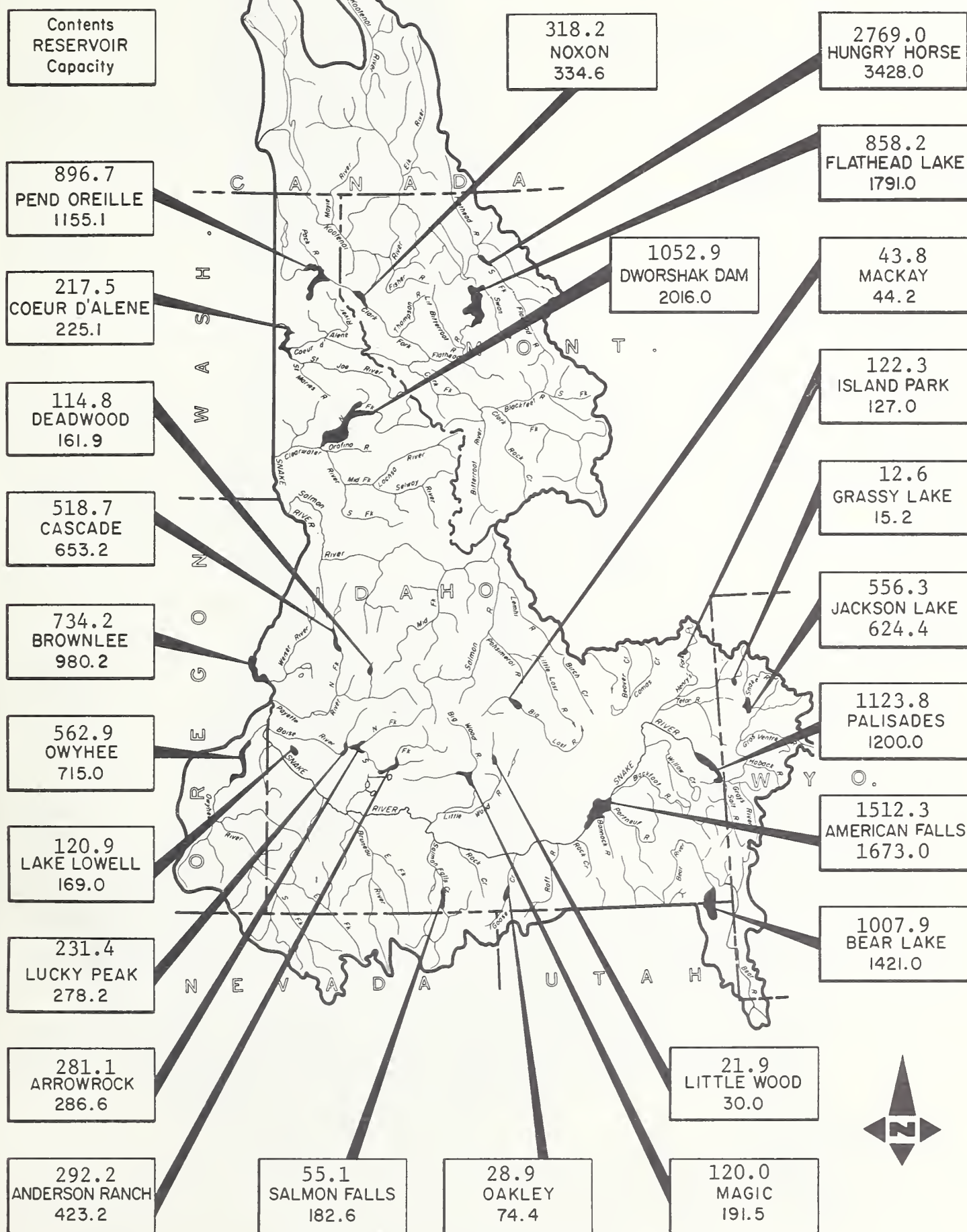
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA RIVER				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2769.0	2430.0	2200.0
Flathead	1791.0	858.2	636.2	994.6
Pend Oreille	1155.1	896.7	155.0	376.0
Noxon	334.6	318.2	264.4	299.1
Spokane				
Coeur d'Alene	225.1	217.5	70.5	121.6
SNAKE BASIN				
Snake				
Jackson Lake	624.4	556.3	547.8	615.6
Palisades	1200.0	1123.8	909.3	903.6
American Falls	1673.0	1512.3	1364.0	1241.9
Island Park	127.0	122.3	103.4	114.6
Grassy Lake	15.2	12.6	11.5	10.6
Brownlee	980.2	734.2	630.4	465.2
Goose-Trapper Creeks				
Oakley	74.4	28.9	40.1	29.3
Salmon Falls Creek				
Salmon Falls	182.6	55.1	48.1	55.5
Big Lost				
Mackay	44.2	43.8	26.2	32.4
Big Wood				
Magic	191.5	120.0	29.0	113.9
Little Wood				
Little Wood	30.0	21.9	15.9	17.8
Fish Creek				
Carey Valley	14.4	8.4	3.0	--
Boise				
Anderson Ranch	423.2	292.2	213.3	256.5
Arrowrock	286.6	281.1	279.7	251.4
Lucky Peak	278.2	231.4	47.0	87.1
Lake Lowell (Deer Flat)	169.0	120.9	90.8	132.6
Owyhee				
Owyhee	715.0	562.9	629.9	491.3
Payette				
Cascade	653.2	518.7	279.5	338.8
Deadwood	161.9	114.8	59.9	85.9
Weiser				
Mann Creek	11.1	9.3	8.0	--
Clearwater				
Dworshak	2016.0	1510.5	805.6	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1052.9	1007.9	1030.6

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1981

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	7400	83	Apr-Sep	--	8858
		6440	83	Apr-Jul	--	7708
		5040	82	Apr-Jun	--	6144

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	8870	64	Apr-Sep	--	13781
		8060	64	Apr-Jul	--	12519
		6800	64	Apr-Jun	--	10633

Priest River

Priest River <u>1/</u>	(at)	694	83	Apr-Jul	--	841
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SPOKANE RIVER

Post Falls <u>2/</u>	(at)	1500	52	Apr-Sep	--	2910
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St. Joe River

Calder	(at)	680	52	Apr-Sep	--	1309
		650	53	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(at)	644	71	Apr-Sep	--	903
Palisades Inflow <u>3/</u>		2620	68	Apr-Sep	--	3863
Heise <u>4/</u>	(nr)	2900	68	Apr-Sep	--	4247
Blackfoot <u>5/</u>	(nr)	3200	70	Apr-Jul	--	4579

Henry's Fork

Ashton <u>6/</u>	(nr)	560	76	Apr-Sep	--	737
Rexburg <u>7/</u>	(nr)	1165	76	Apr-Sep	--	1534

Portneuf River

Topaz	(at)	70	65	Mar-Sep	--	108
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Oakley Reservoir Inflow

		14	39	Mar-Sep	--	36
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Salmon Falls Creek

San Jacinto	(nr)	35	37	Mar-Sep	--	95
		33	37	Mar-Jul	--	90
		31	37	Mar-Jun	--	85

Bruneau River

Hot Springs	(nr)	100	40	Mar-Sep	--	251
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(c) Assuming normal meteorological conditions.

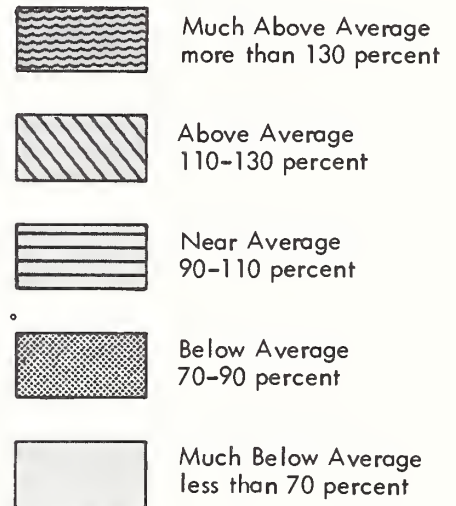
+ 1963-1977 period.

PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
MARCH 1, 1981

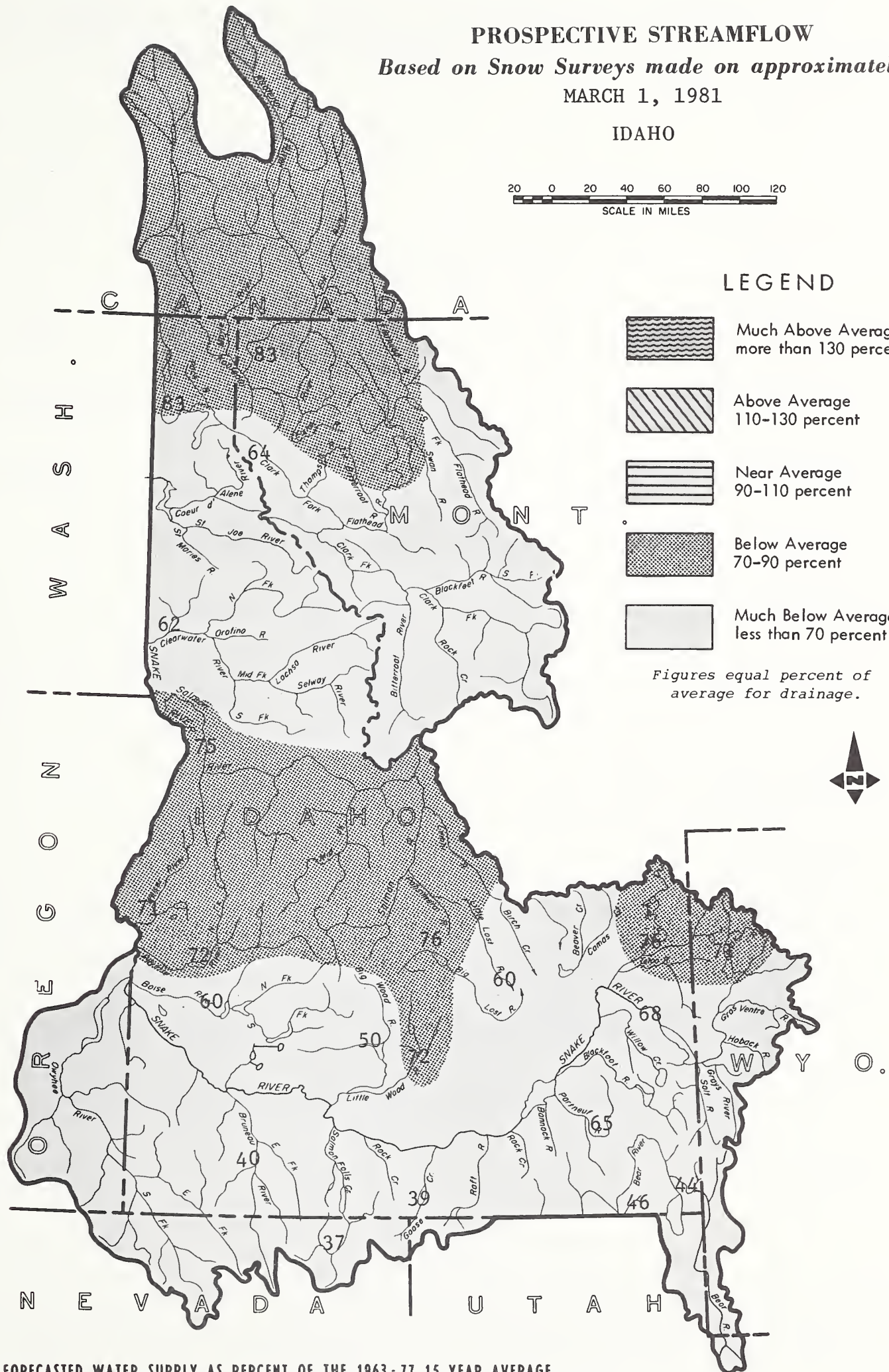
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20 0 20 40 60 80 100 120
 SCALE IN MILES

LEGEND



Figures equal percent of average for drainage.



FORECASTED WATER SUPPLY AS PERCENT OF THE 1963-77 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Little Lost River</u>						
Howe	(nr)	27	60	Apr-Sep	--	45
Wet Creek	(bl)	16	62	Apr-Jun	--	26
		25	61	Apr-Sep	--	41
<u>Big Lost River</u>						
Howell	(at)	170	76	Apr-Sep	--	225
		115	75	Apr-Jun	--	154
Mackay <u>8/</u>	(nr)	150	74	Apr-Sep	--	204
<u>Big Wood River</u>						
Magic Reservoir		160	50	Apr-Sep	--	319
Inflow <u>9/</u>		167	50	Mar-Jul	--	332
<u>Little Wood River</u>						
Carey	(nr)	77	72	Apr-Sep	--	107
		71	72	Apr-Jul	--	99
		62	72	Apr-Jun	--	87
<u>Boise River</u>						
Twin Springs	(nr)	460	63	Apr-Sep	--	733
		425	63	Apr-Jul	--	676
Boise <u>10/</u>	(nr)	1000	60	Apr-Sep	--	1656
		940	60	Apr-Jul	--	1536
		820	60	Apr-Jun	--	1360
<u>South Fork</u>						
Anderson Dam <u>11/</u>	(at)	380	61	Apr-Sep	--	622
<u>Owyhee River</u>						
Gold Cr., Nev. <u>12/</u>	(nr)	7	32	Apr-Jul	--	23
Owyhee, Nev <u>12/</u>	(nr)	28	35	Apr-Jul	--	80
Lake Owyhee		97	25	Apr-Sep	387	392
net inflow <u>13/</u>		181	35	Mar-Jul	432	510
<u>Payette River</u>						
Horseshoe Bend <u>14/</u>	(nr)	1330	72	Apr-Sep	--	1860
<u>North Fork</u>						
Cascade <u>15/</u>	(at)	405	72	Apr-Sep	--	564
Banks <u>15/</u>	(nr)	520	72	Apr-Sep	--	726
<u>Weiser River</u>						
Weiser	(nr)	316	71	Apr-Sep	--	442
		399	72	Mar-Sep	--	558

(c) Assuming normal meteorological conditions.

† 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

<u>Salmon River</u>						
Whitebird	(at)	5400	75	Apr-Sep	--	7196

<u>Clearwater River</u>						
Spalding	(at)	5350	62	Apr-Sep	--	8672

GREAT BASIN

<u>BEAR RIVER</u>						
Harer	(at)	147	44	Apr-Sep	--	332
<u>Montpelier Creek</u>						
Montpelier	(nr)	6	48	Apr-Sep	--	12.4
<u>Cub River</u>						
Preston	(nr)	23	46	Apr-Sep	--	50.0
		22	47	Apr-Jul	--	47.0

- 1/ Observed flow corrected for storage in Priest Lake.
 - 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
 - 3/ Corrected for storage in Jackson Lake.
 - 4/ Corrected for storage in Jackson Lake and Palisades.
 - 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
 - 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
 - 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
 - 8/ Observed flow corrected for storage in Mackay Reservoir.
 - 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
 - 10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
 - 11/ Corrected for storage in Anderson Ranch Reservoir.
 - 12/ Corrected for storage in Wildhorse Reservoir.
 - 13/ From WPRS records of inflow.
 - 14/ Corrected for storage in Cascade and Deadwood Reservoirs.
 - 15/ Corrected for storage in Cascade Reservoir.
- Cooperative forecasts released by Soil Conservation Service and National Weather Service.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
Above Burke	4100	2/27	24	9.0	12.0	22.9*
Above Gilmore	8240	2/27	25	5.7	7.6	8.2
Antelope Ridge	6180	2/28	0	0.0	6.0	6.9*
Aspen Grove	6500	3/2	28	8.0	13.1	10.7*
Aspen Hall Pass (A)	8200	2/27	29	6.4	10.4	8.5*
Atlanta Summit	7600	2/26	56	17.8	29.9	31.2*
Atlanta Townsite	5280	2/25	17	5.6	--	--
Austin Bros. Ranch	6400	2/24	13	4.4	9.4	8.3
Bad Bear	4940	2/26	20	6.5	11.8	13.5
Badger Gulch	6660	2/26	15	4.7	12.9	10.7
Banner Summit	7040	2/25	61	19.1	26.4	--
Battle Creek (A)	5710	2/27	0	0.0	--	3.2
Bear Basin	5350	2/26	42	11.2	14.8	--
Bear Canyon	7900	2/25	44	13.2	16.8	15.9
Bear Creek	8040	2/27	32	7.9	20.0	18.0*
Bear Mountain	5400	2/24	94	37.4	38.1	53.7*
Bear Saddle	6180	2/27	45	16.5	22.0	--
Beaverdam Creek	6120	2/28	15	4.4	8.8	--
Bennett Mountain	6560	3/1	22	6.9	14.4	15.0*
Benton Meadow	2370	2/28	0	0.0	4.8	6.4
Benton Spring	4920	2/28	26	8.8	12.6	17.7
Big Creek Summit	6580	2/27	68	21.0	34.5	31.6
Big Springs	6400	2/27	46	12.1	14.4	18.7
Birch Creek	6800	3/2	17	5.4	--	10.7*
Black Canyon	7960	2/27	72	22.2	--	29.9*
Black Moose	8160	2/27	70	21.8	--	36.1*
Blue Ridge	6780	2/27	31	10.3	18.1	--
Bogus Basin	6340	3/2	29	9.3	22.2	20.7
Bogus Basin Road	5540	3/2	0	0.0	2.3	5.8
Bone	6200	2/27	9	3.4	7.2	7.4*
Borah (A)	8250	2/27	13	3.0	5.0	--
Bostetter Ranger Station	7500	2/26	27	7.9	17.5	17.1
Boulder Creek	5440	2/27	40	13.2	14.0	21.8
Boy Scout Camp	7740	2/26	24	7.7	15.0	12.8
Breezy Saddle	5010	2/27	39	12.0	15.8	--
Brockman Station	6430	2/26	19	5.9	9.3	--
Brundage Mountain	7560	2/26	84	26.0	41.6	40.6*
Bull Basin (A)	5480	2/27	0	0.0	--	1.2
Camas Creek Divide	5710	3/1	14	4.7	10.6	10.0*
Camp Creek	6580	2/27	32	6.8	6.0	9.8
Cayuse Airstrip	3500	2/27	6	1.6	5.1	12.0
Cedar Creek	6820	2/27	11	3.9	8.8	9.3
Chilco Ridge	3650	2/24	0	0.0	2.2	--
Chimney Creek	6400	3/1	26	8.5	15.5	--
Christensen Ranch	5560	2/23	16	5.0	10.1	7.9
Clear Creek Meadows (A)	9420	2/26	38	13.6	16.8	19.1
(Cliff Canyon) Tom Perry Canyon	7200	2/23	9	3.0	8.2	--
Conie Ridge	3900	2/24	0	0.0	3.1	--
Copes Camp	7520	2/27	17	2.9	7.4	6.6
Copper Basin	7640	2/25	22	6.7	8.5	8.4
Copper Ridge	4820	2/25	21	7.6	11.2	25.1
Corner Creek	3150	2/24	0	0.0	3.3	--
Couch Summit	6840	3/1	39	8.6	19.0	16.9*
Cozy Cove	5380	2/25	36	10.5	14.4	15.2*
Crater Meadows	5960	2/27	57	17.6	27.1	38.9
Crawford Ranger Station	4860	2/27	10	3.5	7.0	7.7
Crooked Fork	3610	2/27	14	4.6	7.5	12.7*
Cub River Ranger Station	5450	2/23	17	4.9	9.1	8.4
(Daniels Creek) Reed Canyon	6270	2/23	12	3.7	7.5	--
Darby Canyon	8250	3/2	41	11.3	16.7	19.8*
Deadline	6900	2/27	28	8.9	18.1	18.8
Deadline South	7450	2/27	33	9.8	25.2	--
Deadman Gulch	5600	2/25	18	5.8	16.2	14.7*
Deadwood Airstrip	5360	2/25	38	11.9	14.1	14.4
Deadwood Summit	6860	2/25	94	30.6	40.9	41.3*
Dempsey Creek	6100	3/2	16	4.3	12.0	11.0
Dollarhide Summit	8420	2/26	48	15.0	22.6	21.1
Double Springs Pass (A)	8400	2/27	21	4.8	9.6	8.7*
Dry Basin	7820	2/23	40	11.6	28.9	24.2*
Dry Creek Flat	6360	2/23	2	0.8	10.6	7.4
Dry Fork	7220	2/26	33	10.6	14.6	14.6*
East Creek	7000	2/28	16	4.1	11.1	--
East Twin	4130	2/27	0	0.0	4.0	10.8

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
					Last Year	Average
NAME	Elevation					
Elk Butte	5550	2/27	49	14.2	17.5	34.7
Emigrant Summit	7390	2/24	33	8.5	22.8	21.7
Emigration Canyon	6500	2/24	17	5.0	11.3	9.7
Fairview Guard Station	6750	2/27	14	3.2	5.4	4.2
Fish Lake Airstrip	5650	2/27	58	17.3	24.7	36.3
Fishpole Lake	9300	2/25	47	14.7	23.2	17.3*
Forty-nine Meadows	4830	2/27	38	11.9	14.9	27.2
Fourth of July Summit	3200	2/25	0	0.0	2.9	8.9
Fox Creek	6750	2/27	11	3.6	10.2	9.7
Franklin Basin	8040	2/23	36	9.9	23.3	22.7
Freds Mountain	8150	3/2	43	12.1	18.0	16.9*
Galena	7440	2/25	44	12.7	16.0	17.0
Galena Summit	8780	2/25	51	14.4	19.0	20.6
Garfield Ranger Station	6560	2/27	23	8.5	11.5	9.8
George Creek	8840	2/26	30	8.7	--	--
Giveout	6860	2/26	24	6.1	12.1	11.1
Gibbons Pass	7100	2/23	59	16.5	16.6	21.2
Goat Creek	8880	2/27	22	5.6	17.5	15.7
Graham Guard Station	5690	2/25	26	7.9	13.5	--
Graham Ranch	6270	2/25	37	9.5	13.5	12.8
Grassy Lake	7265	2/25	60	20.3	24.3	30.6
Hall Creek	7560	2/27	14	2.3	6.9	4.8*
Halverson Creek	4850	2/24	82	35.2	34.0	39.1*
(Hell Creek) Lava Creek	7350	2/26	30	8.0	12.6	--
Hemlock Butte	5810	2/27	61	18.1	27.7	43.6*
Hilts Creek	8000	2/25	31	7.8	10.2	--
Hoodoo Basin	6000	2/26	87	30.6	37.2	45.4*
Hoodoo Creek	5900	2/26	79	25.8	34.5	42.0*
Horseshoe Basin	8000	2/23	35	10.9	27.6	22.0*
Howell Canyon	7980	2/26	27	9.0	20.9	22.1
Hummingbird Springs	8870	2/27	34	8.9	22.4	19.5
Hyde Pasture (A)	5760	2/27	T	0.1	--	5.3
Hyndman Creek	7440	2/25	38	10.8	14.3	--
Indian Grove	7560	2/26	18	5.2	12.4	--
Indian Meadows	8240	2/25	65	20.5	25.7	30.9*
Iron Bog	7650	2/26	35	10.3	13.4	12.8*
Iron Mine Creek	6300	2/27	26	8.3	11.1	9.9
Irving Creek	7040	2/26	19	4.1	--	5.2*
Island Park	6290	2/27	43	11.6	12.9	15.1
Jackpine Creek	7350	2/25	33	9.9	15.5	19.6*
Jackson Peak	7070	2/25	57	17.6	28.4	27.3
Johnson Creek	6730	2/24	24	5.6	13.6	--
Kellogg Peak (A)	5560	2/25	23	8.9	19.6	28.2*
Kilgore	6320	2/26	27	8.8	8.6	10.6
Kit Carson Pasture	4950	2/27	17	5.1	7.6	--
Lake Fork	5290	2/27	31	8.7	10.9	14.6
Latham Springs	7630	2/27	66	20.0	--	28.6
Leadbelt	6700	2/26	22	7.2	9.8	8.6
Leatherman Pass	9860	2/27	51	14.4	13.7	20.2*
Lemhi Pass	7480	2/28	20	5.0	6.6	8.1
Lemhi Ridge	8100	2/28	28	6.2	7.7	8.9*
Liberty Spring	8600	2/23	47	13.7	34.0	32.7
Little Beaver	6970	2/26	28	8.0	13.2	14.0
Little Camas Flat	4940	3/1	7	1.6	5.2	5.9*
Logger Springs	8120	2/26	33	7.6	16.6	--
Lolo Pass	5240	2/27	41	12.9	21.5	27.5
Lookout	5140	2/27	49	16.6	20.6	31.0
Lost Garfield	6600	2/27	13	3.4	4.0	3.7
Lost Lake	6110	2/27	85	25.7	29.9	50.0*
Lost Wood Divide	7900	2/25	47	14.2	20.2	20.4*
Lower Elkhorn	6960	2/23	16	5.5	16.9	12.7*
Lower Home Canyon	7640	2/25	22	6.4	13.1	12.2*
Lower Pebble	5780	2/28	13	3.8	12.6	12.3*
Lower Sands Creek	3120	2/25	12	4.1	8.4	17.5*
Lucky Dog	6860	2/27	56	16.0	--	22.1
Magic Mountain	6880	2/27	28	9.0	17.3	16.4
Mascot Mine	7780	2/25	36	10.5	13.5	13.1
McRenolds Reservoir	6720	2/25	35	10.1	13.8	17.4*
Meadow Lake	9150	2/27	42	10.9	12.6	16.5
Mill Creek Summit	8800	2/26	47	12.4	18.6	20.3
Mink Creek	6410	3/1	31	8.8	18.0	15.5
Montpelier Creek	6540	2/26	12	3.1	8.7	7.5
Moonshine	7440	2/27	25	5.4	8.5	9.3

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SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average
NAME	Elevation					
Moore's Creek Summit	6100	2/26	48	14.9	29.5	28.6
Moose Creek	6200	2/27	41	12.6	9.6	15.6
Morgan Creek	7600	2/24	29	7.9	10.4	12.8
Moscow Mountain	4410	2/27	12	4.1	8.2	15.6
Mosquito Ridge (A)	5200	2/25	66	23.3	24.1	34.6
Mount Baldy	8920	2/27	48	13.6	18.6	18.4
Mud Creek	7100	2/27	46	13.3	19.2	--
Mud Flat	5730	2/28	4	1.6	6.5	6.0*
Muldoon	6320	2/27	16	5.4	8.2	7.6
Nez Perce Pass	6570	2/27	30	8.5	10.6	15.7
One Mile Summit	7330	2/26	8	2.5	5.2	6.1
Oxford Mountain	6800	2/23	15	4.3	11.6	9.4
Oxford Spring	6740	2/23	11	3.4	--	--
Packsaddle Springs	8200	3/2	44	14.3	--	--
Pebble Creek	6550	2/28	18	5.6	16.5	14.5
Perreau Meadows	8500	2/25	33	8.8	12.2	--
Phillips Bench	8200	3/1	43	11.5	20.7	23.2*
Pierce Ranger Station	3080	2/27	6	1.6	5.6	10.9
Pine Creek Pass	6810	3/2	31	8.8	10.7	15.6
Placer Creek	5860	2/25	40	12.8	13.4	16.5
Pole Creek Ranger Station	8360	2/27	29	7.8	17.8	18.6
Prairie	4800	2/26	0	0.0	3.7	5.8
Rammel Ridge	8240	2/25	58	19.1	--	--
Red Canyon (A)	6520	2/27	T	0.1	--	6.6
Redfish Lake Flat	6560	2/24	19	6.5	11.9	8.9*
Road Creek	5380	2/26	11	3.4	--	10.4*
Rock Flat Summit	5310	2/27	43	11.5	13.8	16.7
Roland Summit (A)	5120	2/25	30	11.4	19.6	31.3
Sage Creek Saddle	4080	2/24	8	2.6	9.8	--
Savage Pass	6170	2/27	54	15.0	19.8	24.1
Sawmill Canyon	7000	2/27	23	4.9	7.0	6.9
Sawtell Mountain	8720	2/26	66	21.0	28.6	28.4*
Schwartz Lake	8540	2/27	29	6.0	10.7	10.8*
Schweitzer Bowl	4800		Plowed Out		21.1	28.1*
Schweitzer Ridge	6200	3/2	75	29.2	42.8	40.3*
Secesh Summit	6520	2/27	63	21.6	30.8	30.9*
Sedgwick Peak	7850	2/28	29	7.3	16.9	--
Seventy-six Creek	7100	2/27	16	5.1	11.6	10.4
Shanghai Summit	4570	2/27	17	5.4	11.9	24.1
Sheep Mountain	6570	2/26	22	6.4	11.7	12.5*
Sherwin	3200	2/25	7	2.6	5.7	13.3
Shoshone Basin	5810	2/27	0	0.0	6.7	5.3
Silver City	6400	2/28	14	5.6	16.3	13.7
Slug Creek Divide	7230	2/25	25	8.0	16.7	14.8
Soldier Ranger Station	5740	3/1	19	6.4	12.1	11.5
Somsen Ranch	6840	2/24	26	6.7	14.4	12.7
South Mountain	6500	2/28	16	6.2	15.6	11.6
Squaw Flat	6240	3/1	46	11.9	20.4	--
Squaw Meadow	5900	2/28	62	22.4	32.1	31.9
State Line	6660	3/2	28	8.3	10.1	12.7
Stickney Mill	7430	2/25	26	7.4	9.7	8.3
Strawberry Creek	5820	2/24	14	4.1	9.6	9.6
Strawberry Mink Divide	6720	2/23	28	7.5	21.4	18.7
Sublett	5950	2/26	15	4.2	9.3	10.1
Succor Creek (A)	6200	2/27	9	3.5	--	5.6
Sulphur Peak	7070	2/24	25	6.5	15.5	--
Sunset (A)	5540	2/25	70	22.9	24.3	32.6*
Swede Peak	7640	2/27	40	11.2	16.5	15.2
Targhee Pass	6980	2/26	30	7.6	9.0	13.6*
Telfer Ranch	5840	2/27	14	5.3	9.2	7.8
Teton Pass W.S.	7740	3/1	38	11.3	17.4	21.0*
Tex Creek	6650	2/26	26	6.4	9.0	8.5*
Trinity Mountain	7770	2/26	60	20.7	38.8	38.2
Tripod Summit	5260	2/27	30	10.5	15.2	16.7
Twin Peaks (A)	9190	2/27	45	11.9	19.6	23.0*
Upper Elkhorn	7140	2/23	27	6.9	20.0	16.4*
Upper Home Canyon	8560	2/25	34	10.4	20.7	19.9*
Valley View	6680	2/26	31	9.2	11.7	15.6
Vaught Ranch (A)	5830	2/27	0	0.0	--	4.1*
Vienna Mine	8960	2/25	65	20.1	35.0	32.1
Vi Pont	7670	2/26	27	6.5	14.8	12.9*
War Eagle (A)	7280	2/27	42	16.4	--	19.6*
Webb Creek	4720	2/27	0	0.0	7.1	--

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SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
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NAME	Elevation				Last Year	Average
Webber Creek	6700	2/26	23	4.0	--	--
West Twin	4220	2/27	0	0.0	3.6	9.4
Wet Creek Summit	7680	2/25	28	7.4	9.7	10.7
Whiskey Flat No. 1	6960	2/26	10	2.8	9.8	8.5
White Elephant	7710	2/26	50	14.7	21.2	18.4 *
Wildhorse Divide	6480	3/1	29	7.8	--	--
Williams Creek Summit	7990	2/25	24	5.2	9.5	11.1
Willow Flat	6070	2/23	20	6.2	15.6	13.9
Wilson Creek	7500	2/27	T	T	11.5	11.0
Wood Canyon Divide	7450	2/24	26	6.9	16.9	--
Worm Creek	6620	2/23	27	8.0	19.5	--

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 (A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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